Woo 62 mordax (BW 458)
Russula mordax WA (iNat 17704170)
Woo 62 mordax = tenuiceps (68)
Woo 62 mordax grp (BW 672)
iNat 34346623 Russula mordax BTSP
AF335442 Russula mordax Seattle (TYPE WA match)
KX812828 R. mordax TYPE WA ITS1 (short)
Woo 62 mordax grp (BW 718)
Russula mordax WA (iNat 17704208)
Russula 3 SAT 97-263-07 (WA R. mordax chunk of 3 indel from ITS1 TYPE)
Russula mordax (greying as vinososordia) OR (MP 6598893)
iNat 34329315 Russula mordax BTSP
JF834368 Russula ocher oaks 1/2 PNW03 CA
Russula ocher oaks 1/2 PNW03 OR iNat128393456
R. integra UNITE EU overwhelming+Bart AY061683
Woo 66 sierrensis (12)
JF834336.1 Russula sierrensis CA match to ITS1 type + ITS2 Woo 66
KX812830 Russula sierrensis ITS1 TYPE CA (short)
R. integriformis UNITE EU consensus+Bart AY061684
Russula sierrensis WA iNat 18217120
Russula sierrensis OR iNat35169996
AY061665 R. claroflava (=flava but var pacifica type PNW) UNITE EU overwh+Bart
AY061724 Russula vinosa UNITE EU overwhelming + Bart (2/0 WNA)
Woo 63 vinosa BW 894
Woo 63 vinosa (occidentalis) (9)
Russula vinosa WA (iNat 17704352 17704282)
R. velenovskyi UNITE EU overwhelming+Bart AY061721
Woo 64 aff velenovskyi 5/0 (1) Seattle birch
EF218811.1 Russula Woo64 aff velenovskyi Interior BC
Russula intermedia UNITE unanimous EU (red cap)
Russula intermedia PNW02 WA iNat 34667460 8/1 (pale yellow cap)
R. alutacea (only UNITE EU) UDB031172
R. olivacea UNITE EU 1 UDB011195
R. olivacea UNITE EU 3 UDB000323
KY582715 Russula olivacea UNITE EU 4
R. Woo 58 cf olivacea FeSO4+ WA iNat34666166
Woo 58 cf olivacea
Woo 58 cf olivacea Marty F31199 Victoria
Woo 56 aff californiensis 6/2 (1)
Russula AK emetica iNat67650541
KX812832 R. viridofusca 1979 TYPE WA ITS1 (short)
Woo 57 BW 198 aff vinososordida (4 UNITE 1 1 TYPE) (10)
R. aff vinososordida BW 1083
R. aff vinososordida BW 34
R. aff vinososordida BW 36
R. aff vinososordida BW 87
R. aff vinososordida BW 315
R. aff vinososordida BW 319
R. aff vinososordida BW 396
R. aff vinososordida BW 911
R aff vinososordida BW 586
Russula grundii TYPE CA (as basifurcata)
Russula californiensis CA (2/0 KX812821 TYPE ITS1) AY245542
Russula mendocinensis CA cf decolorans (1/0 ITS1 type match) DQ367913
R. vinososordida TYPE Fin UDB011115
KX812826 R. mendocinensis TYPE CA ITS1 (short) purple hot
R. aff vinososordida UNITE EU UDB011362
Russula pelargonia UNITE EU overwhelming UDB0352249
AF506465 Russula cf violacea EU genbank
AY061725 Russula violacea EU Bart
Russula pelargonia UNITE EU 2 (single record) UDB025080
Russula Woo54 punicea nom ill OR iNat99432404
Woo 54 punicea nom ill (2)
JF834344 Russula Woo54 punicea nom ill CA
AF418630 Russula veternosa UNITE EU unanimous
Woo 55 aff firmula 98 (but 1 diff in longish strings only) (7)
R. firmula UNITE EU consensus UDB016073
JF834349.1 Russula basifurcata PNW01 CA
Russula basifurcata PNW01 WA iNat128709146 Beug oak
R. caerulea UNITE EU consensus UDB000353
Russula chlorineolens WA iNat128647681 (type OR)
MT955146.1 Russula chlorineolens AK SAT-11-244-12
Russula (Macowanites) Vancouver BC KX812840
R. risigallina UNITE EU 2 (2/1 postiana) UDB000912
Woo 69a postiana AK 2/0 BW 253 1/0 postiana BW 955
Russula 32 SAT 11-236-13 (AK R. postiana)
R. postiana UNITE EU overwhelming+Bart UDB000897
R. risigallina (=lutea) UNITE EU 1 UDB015998
AY061713 Russula risigallina Bart
OQ322419.1 Russula Woo 69 PQx2
HQ604848 R. postiana JLF (3-4 ITS1 1-3 ITS2)
Woo 69 postiana WA BW 253 (2)
Russula aff postiana Woo 69 WA iNat 43028874
Woo 41 Arcata CALIFORNIA redwood oak madrone (1)
KX812833 Russula zelleri TYPE OR ITS1 (short)
Russula JLF2245 iNat36563061 Woo 58 cf olivacea (0/0 little overlap)
Woo 65 (2 100)
KU205348.1 Russula chamiteae TYPE Fr (= older subrubens)
R. olivacea UNITE EU 2 UDB000322
KX812820 Russula bicolor TYPE VT (short ITS1)
Woo 68 benwooii 3/0+5/0 ITS2 (but dirty elsewhere) BW 066
UDB031751 R. paludosa EU (alleles)
Russula 13 FTNF 10-251-15 (AK R. paludosa)
UDB031535 R. paludosa UNITE EU unanimous + NBC F32603
Russula benwooii (iNat 17704166)
R. benwooii 0/0/3 WA iNat34944705
Russula 18 SAT 05-265-08 (WA R. benwooii but looks like R. murrillii)
Russula benwooii (slightly acrid) WA iNat34666625
Russula benwooii BC Campbell River JMK2022174R
Woo 67 BenWooii (61)
R. benwooii 20171014DJM01 14985
Russula benwooii WA iNat101581464
Russula 14 FTNF 10-251-18 (AK R. benwooii 0/0 some WA stem very flushed)
Woo 67 3/0 BW 409
Woo 67 3/0/14 BW 480
R. nitida UNITE unanimous KU205349
Russula 38 SAT 13-286-04 (WA birch R. nitida atypical)
GU998665 Russula sphagnophila NA+EU (type MI) UNITE 1
R. pseudo-olivascens 2002 TYPE (=clavipes Adamcik =elaeodes) KU205304
Russula clavipes 1920 official Adamcik UDB011174 (=R. pascua DNA)
KU205345 Russula nuoljae official Adamcik
Russula 34 SAT 12-248-01 AK (R. nuoljae)
Russula subrubens UNITE EUx50 UDb002453
Russula subrubens WA iNat152769204
Russula subrubens UNITE EUx40 (= newer chamiteae) GU234054
Russula viridofusca 1979 BC (TYPE WA match)
Russula cf favrei 1979 UNITE NA (type EU) KJ146730
R. viridofusca WA iNat34943706 olive-tan
Russula favrei 1979 UNITE EU NA JF908683
AY228344 Russula favrei Woo 60 Mary UBC
Woo 60 favrei elaeodes (8)
Woo 60 favrei grp BW 1077
HM240542 Russula favrei Mary UBC
Russula xerampelina (UNITE overwhelming EU consensus) AY641462
Russula Woo 61 aff xerampelina S. Sound (iNat 14391113) looks like occidentalis DNA (error)
Russula 21 SAT 08-231-10 (NM Copper xerampelina PNW)
Russula aff xerampelina (UNITE NA consensus) KJ748429
Russula 17 SAT 05-259-04 (R. xerampelina PNW)
Russula Woo 61 aff xerampelina WA (iNat 17704364)
Russula aff xerampelina (3/0 ITS + 4/1 other) WA (iNat 17704264) Woo 2018
Woo 61 aff xerampelina (13)
Woo 59 grp 2/0 BW 1018
Woo 59 viridofusca (31)
Woo 59 grp BW 605
R. decolorans NBC Marty JMK2016030
Russula decolorans Mary UBC Yun Ting Pang (dirty)
Russula decolorans Campbell River Vanc Isl Marty
R. decolorans NBC Marty UDB024044
Russula decolorans UNITE EU overwhelming AY194601
Russula 29 SAT 10-207-07 AK R. decolorans
AY061722 Russula versicolor Bart
HQ445521 Russula versicolor UNITE EU 1
Woo 44 aff versicolor yet birch (2/1 ITS2 +4 ITS1) (1)
UDB011096 R. versicolor UNITE EU 3 (1/300) (0/0-4 ITS1)
iNat31303571 Russula versicolor 1/0 WA birch
Russula Woo 44 SAT 15-314-03 (R. aff versicolor Seattle cottonwoods)
Russula Woo44 aff versicolor Populus WA iNat34749707 (=genbank odorata 2 = UNITE)
Russula Woo 44 aff versicolor AK iNat100100884
FJ845431 Russula aff versicolor Woo44 (6/0-1) (as gracilis) NBC conifers
UDB031648 R. versicolor UNITE EU 2 (aff versicolor WA)
Russula cessans (only UNITE EU) JN944011
KY582706 Russula odorata UNITE EU
Woo 43 BW 644 R. sapinea 1/0 (5)
R. sapinea Woo 43 (as sphagnophila UNITE NA 2) 4/0 ITS+3/0 JMK2016036 Vanc. Isl
R. olivina UNITE EU 2 UDB002598 (wrong yellowing clade)
R. sapinea Woo 43 2/1 ITS+2/0 Buck16856
BW 861 R. sapinea 3/0
KR019818 Russula sapinea UNITE EU unanimous overwhelming
EU598179 Russula cf abietina TN (type NY) (2/0 Woo) Bart
KF359677 Russula cf abietina TN (1/0 TN)
Woo 45 BW 508 aff cf abietina (4)
BW 1063 R. aff cf abietina (2/0 BW 508 etc)
Russula Woo 42 iNat35711270 OR fall
Russula Woo 42 OR spring SAT-15-150-1 (dried stem somewhat yellow-tan)
Woo 42 cf puellaris (1) KX812946 Fall
HQ703024 Russula puellaris UNITE EU overwhelming
KT697970 Russula cremeirosea UNITE 2 MX
KT933983 Russula cremeirosea UNITE NA 1 (type FL)
EU819514 Russula cremeirosea UNITE NA 3
AY656976 R. bicolor 1/0 TYPE match
Russula brunneoviolacea UNITE EU unanimous (type China) UDB015985
Russula aurantioflammans AZ iNat44318785
Russula aurantioflammans AZ iNat44322692
Russula aurantioflammans 31 SAT 11-217-03 Fairbanks AK acrid birch-aspen
Russula aurantioflammans AZ iNat44321947
Russula aurantioflammans Williams Lk BC Marty envir pure Doug fir
NR 137756 Russula jilinensis TYPE China 2012 (0/0-1 aurantioflammans)
UDB015060 R. aurantioflammans UNITE EU unanimous 1998
Russula 30 SAT 11-217-02 (AK R. sp. nov)
Woo 49 (1) Satus Pass WA (cream cap)
Woo 48 (1) Shelton WA (brown w/ dk purple disc)
Russula graminea NAMA2018 OR (iNat 17477866)
Russula 36 SAT 13-274-05 (AK R. graminea much purple)
R. graminea JLF3426 Crater Lk OR (yellow spicy)
R. graminea iNat36563847 JLF3428 Crater Lk OR (yellow spicy)
Russula 46 SAT 16-244-09 (AK R. graminea dk purple green center)
Russula graminea UNITE EU unanimous KC164353
Woo 47 graminea 0/1 (14)
Russula graminea Buck 122 1 WA (0/0 Woo 47)
Russula 33 SAT 12-247-02 (AK R. graminea)
Woo 50 obscurozelleri (40)
Russula obscurozelleri HOT WA iNat34942612
Russula obscurozelleri Vashon WA (MO 342154)
MP 6598753 - Russula obscurozelleri NAMA2018
Russula obscurozelleri OR iNat17471827
Russula Woo 51a (cf cessans) Victoria BC KX812850 F30306 (unsp. trees)
JF834352 Russula Woo 51a CA (as cf murrillii)
Russula Woo 51a Marty 384F Victoria
Russula cessans Anna EU TU101805 UDB015971
Russula nauseosa UNITE EU 2 UDB011164
KT933985 Russula nauseosa UNITE EU 1
BW 953 Russula pseudotsugarum TYPE WA KX813578 Woo 52
Woo 52 pseudotsugarum (25)
Russula pseudotsugarum OR NAMA 2018 (iNat 17471976 greenish tones WA 17704180)
R. pseudotsugarum JMK2016040 Vanc Isl
Russula subloculata ID (same ITS as R. zelleri)
Russula 12 FTNF 10-249-32 (AK R. zelleri 100 ITS1 TYPE)
Woo 51 (2)
JF834326 Russula zelleri longer CA (1/0 ITS1 type match)
Woo 53 zelleri (16) (all =2/0 type)
SVMFA074 Russula zelleri AB
KT968586.1 R. idahoensis OR Trappe 1600 (sister to entire garbage clade)
Russula cf idahoensis OR iNat63450939
Russula cf idahoensis OR iNat19018063 (short 2/1/100)
Russula 16 SAT 04-274-01 (WA Arb R. obscurozelleri)
Russula Woo 72 turci Marty F31213 Sooke SBC
iNat17704233 Russula Woo 72 turci 1/0 (photo odd) WA (+short WA iNat17704217)
Woo 72 turci (36)
Woo 72 2/0 BW 639
Woo 72 3/0 BW 489
Woo 71 BW 1029 (3)
R. turci UNITE EU 4 KY582703 (1/1+3/3 Woo 72)
KF007951 R. avellaneiceps (Anna says TYPE match why)
AY061720 Russula turci EU Anna/Bart
R. turci UNITE EU 1 UDB037377 (1/1+5/1 Woo 72)
Woo 70 murrillii (9) (caps UV+)
Russula murrillii Marty F31220 Sooke SBC
R. murrillii Buck 16861 (alleles)
R. murrillii Buck 16859 (alleles)
BTSP 03883 Russula murrillii alleles
Woo 70 grp (BW 172) (0/0 Buck16859)
R. amethystina UNITE EU 1 UDB063602
R. amethystina UNITE EU 2 UDB000303
R. turci UNITE Asia+EU 2 UDB018793
R. turci UNITE EU 3 HM146851
R. amethystina UNITE EU 3 KM517237
Woo 46 (longer) WA iNat49152192 (6/0 olivobrunnea) (Doug fir+alder)
Woo 46 aff olivobrunnea (3 100) (2/0 olivobrunnea ITS2)
R. olivina UNITE EU 1 +Bart UDB016260 (4/1 ITS1+3/1 ITS2 olivobrunnea)
R. olivobrunnea UNITE EU 1+Bart UDB011113 (2 locked 1)
Russula Woo 46 WA iNat124747995
RUSSULA DENSIFOLIA (OUTGROUP)
0.10